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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/964,518	11/05/97	ALVARREZ	R T1-19177

WADE JAMES BRADY  
TEXAS INSTRUMENTS INCORPORATED  
PATENT DEPARTMENT M S 219  
P O BOX 65547  
DALLAS TX 75265

MM61/1222

 EXAMINER

WILLIAMS, A

ART UNIT	PAPER NUMBER
2811	

DATE MAILED: 12/22/98

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

## Office Action Summary

Application No.	08/964518	Applicant(s)	Alvarez et al.
Examiner	P W. Williams	Group Art Unit	2811

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

### Period for Response

A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a response be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for response is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication .
- Failure to respond within the set or extended period for response will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

### Status

- Responsive to communication(s) filed on \_\_\_\_\_.
- This action is **FINAL**.
- Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

### Disposition of Claims

- Claim(s) 1-14 is/are pending in the application.
- Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- Claim(s) \_\_\_\_\_ is/are allowed.
- Claim(s) 1-14 is/are rejected.
- Claim(s) \_\_\_\_\_ is/are objected to.
- Claim(s) \_\_\_\_\_ are subject to restriction or election requirement.

### Application Papers

- See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- The proposed drawing correction, filed on \_\_\_\_\_ is  approved  disapproved.
- The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.
- The specification is objected to by the Examiner.
- The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. § 119 (a)-(d)

- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- All  Some\*  None of the CERTIFIED copies of the priority documents have been received.
- received in Application No. (Series Code/Serial Number) \_\_\_\_\_.
- received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_.

### Attachment(s)

- Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_
- Interview Summary, PTO-413
- Notice of References Cited, PTO-892
- Notice of Informal Patent Application, PTO-152
- Notice of Draftsperson's Patent Drawing Review, PTO-948
- Other \_\_\_\_\_

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Serial Number: 08/964518 Attorney's Docket #: T1-19177

Filing Date: 11/5/97;

Applicant: Alvarraz et al.

Examiner: Alexander Williams

Note: in claim 6, last line, a period --- is needed at the need of the sentence. Also, in claim 10, line 3, "a" should be deleted and line 4, after "leads;" insert --and--.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(a) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 2, 5 to 7 and 10 to 12 are rejected under 35 U.S.C. § 102(e) as being anticipated by Mosley et al. (U.S. Patent # 5,8246,950).

In claim 1, Mosley et al. (**figures 1 to 17b**) specifically figure 1, show a leadframe/stabilizer for use with semiconductor devices, comprising: a plurality of lead frame leads **105,103**; a stabilizer **102b** extending partially along the length of and on each side of said lead frame leads (**see column 5, lines 33-42**); and a die pad **102a** mount integral with and forming a part of said stabilizer.

In claim 2, 7 and 12, Mosley et al.'s stabilizer is made of an insulating material.

In claim 5, Mosley et al.'s die pad **102a** mount has a recess in one surface into which a semiconductor die is mounted.

In claim 6, Mosley et al. (**figures 1 to 17b**) specifically figure 1, show a leadframe/stabilizer for use with semiconductor devices, comprising: a plurality of lead frame leads **103,105**; a

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stabilizer **102b** extending partially along the length of and on each side of said lead frame leads (**see column 5, lines 33-42**); a die pad **102a** mount integral with and forming a part of said stabilizer; and a (**portion above 102a**) recess in one surface of the die pad mount into which a semiconductor die is mount.

In claim 10, Mosley et al. (**figures 1 t 17b**) specifically figure 1, show a method for stabilizing the leads of a lead frame and providing a semiconductor die mount pad **102a**, comprising the steps of: molding a stabilizer fingers **102b** along part of the length and on each side of the lead frame leads **103,105**; and molding a die pad integral with the stabilizer fingers (**see column 5, lines 33-42**).

In claim 11, Mosley et al.'s forming a recessed area in the die pad for mounting of a semiconductor die **101**.

Claim 1 is rejected under 35 U.S.C. § 102(b) as being anticipated by Suzuki et al. (U.S. Patent # 5,424,577).

In claim 1, Suzuki et al. (**figures 1 to 13 and 21**) specifically figures 6B and 7C, show a leadframe/stabilizer for use with semiconductor devices, comprising: a plurality of lead frame leads **110,114-117**; a stabilizer **120-122** extending partially along the length of and on each side of said lead frame leads **122**; and a die pad **112** mount integral with and forming a part of said stabilizer.

Claims 3, 4, 8, 9, 13 and 14 are rejected under 35 U.S.C. § 103(a) as being unpatentable Mosley et al. (cited above) over in view of Kitahara (U.S. Patent # 5,568,363).

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Mosley et al. show the features of the claimed invention as detailed above, but fail to explicitly show the stabilizer is made of an ceramic or plastic material. However, Mosley et al. does discloses the stabilizer is a insulating material and can be made of material having properties the same or similar to a liquid crystal polymer (**see column 4, lines 35-65**).

Kitahara is cited for showing surface mount components. Specifically, Kitahara discloses (**figure 56**) the stabilizer **181** is made of an ceramic material (**see column 14, lines 54 to column 15, lines 67**) for the purpose of providing a structure with enhance structural strength.

In claim 3, 8 and 13, use the combination the reference show it would be obvious to use the stabilizer made of an plastic material.

In claim 4, 9 and 14, the combination Kitahara's stabilizer **181** is made of a ceramic material.

Therefore, it would have been obvious to one of ordinary skill in the art to use Mosley et al.'s stabilizer material to modify Mosley et al.'s stabilizer material for the purpose of providing a structure with enhance structural strength.

The following references are cited as of interest to this application:

U. S. Patent # 5,723,899 is cited for showing a semiconductor lead frame having connection bar and guide rings.

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Field of Search	Date
U.S. Class and subclass: 257/666, 668, 670, 668, 672, 677, 678, 692, 673	12/16/98
Other Documentation: foreign patents and literature in 257/257/666, 668, 670, 668, 672, 677, 678, 692, 673	12/16/98
Electronic data base(s): MAYA U.S. Patents	6/5/98 12/16/98

*Papers related to this application may be submitted to Technology Center 2800 by facsimile transmission. Papers should be faxed to Technology Center 2800 via the Technology Center 2800 Fax center located in Crystal Plaza 4-5B15. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Technology Center 2800 Fax Center number is (703) 308-7722 or 24. Only Papers related to Technology Center 2800 APPLICATIONS SHOULD BE FAXED to the GROUP 2800 FAX CENTER.*

Any inquiry concerning this communication or any earlier communication from the examiner should be

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directed to **Examiner Alexander Williams** whose telephone number is **(703) 308-4863**.

Any inquiry of a general nature or relating to the status of this application should be directed to the **Technology Center 2800 receptionist** whose telephone number is **(703) 308-0956**.

December 17, 1998



Patent Examiner  
Alexander O. Williams